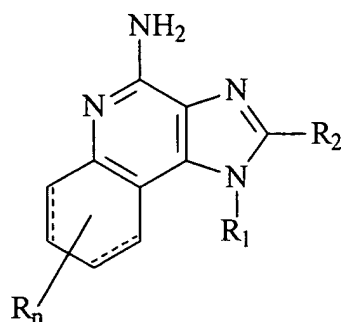


In the Claims:

Please cancel claims 1-28.

Please amend the claims as follows:

29. A method of inducing cytokine biosynthesis in an animal comprising administering and effective amount of a compound of the formula (I):



(I)

wherein

R₁ is -alkyl-NR₃- SO₂ -X-R₄ or -alkenyl-NR₃- SO₂ -X-R₄ ;

X is a bond or -NR₅-;

R₄ is aryl, heteroaryl, heterocyclyl, alkyl or alkenyl, each of which may be unsubstituted or substituted by one or more substituents selected from the group consisting of:

-alkyl;

-alkenyl;

-aryl;

-heteroaryl;

-heterocyclyl;

-substituted cycloalkyl;

-substituted aryl;

-substituted heteroaryl;

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Cont

- substituted heterocyclyl;
- O-alkyl;
- O-(alkyl)₀₋₁-aryl;
- O-(alkyl)₀₋₁-substituted aryl;
- O-(alkyl)₀₋₁-heteroaryl;
- O-(alkyl)₀₋₁-substituted heteroaryl;
- O-(alkyl)₀₋₁-heterocyclyl;
- O-(alkyl)₀₋₁-substituted heterocyclyl;
- COOH;
- CO-O-alkyl;
- CO-alkyl;
- S(O)₀₋₂-alkyl;
- S(O)₀₋₂-(alkyl)₀₋₁-aryl;
- S(O)₀₋₂-(alkyl)₀₋₁-substituted aryl;
- S(O)₀₋₂-(alkyl)₀₋₁-heteroaryl;
- S(O)₀₋₂-(alkyl)₀₋₁-substituted heteroaryl;
- S(O)₀₋₂-(alkyl)₀₋₁-heterocyclyl;
- S(O)₀₋₂-(alkyl)₀₋₁-substituted heterocyclyl;
- (alkyl)₀₋₁-NR₃R₃;
- (alkyl)₀₋₁-NR₃-CO-O-alkyl;
- (alkyl)₀₋₁-NR₃-CO-alkyl;
- (alkyl)₀₋₁-NR₃-CO-aryl;
- (alkyl)₀₋₁-NR₃-CO-substituted aryl;
- (alkyl)₀₋₁-NR₃-CO-heteroaryl;
- (alkyl)₀₋₁-NR₃-CO-substituted heteroaryl;
- N₃;
- halogen;
- haloalkyl;
- haloalkoxy;
- CO-haloalkyl;

- CO-haloalkoxy;
- NO₂;
- CN;
- OH;
- SH; and in the case of alkyl, alkenyl, or heterocyclyl, oxo;

R₂ is selected from the group consisting of:

- hydrogen;
- alkyl;
- alkenyl;
- aryl;
- substituted aryl;
- heteroaryl;
- substituted heteroaryl;
- alkyl-O-alkyl;
- alkyl-O- alkenyl; and
- alkyl or alkenyl substituted by one or more substituents selected from the group

consisting of:

- OH;
- halogen;
- N(R₃)₂;
- CO-N(R₃)₂;
- CO-C₁₋₁₀ alkyl;
- CO-O-C₁₋₁₀ alkyl;
- N₃;
- aryl;
- substituted aryl;
- heteroaryl;
- substituted heteroaryl;
- heterocyclyl;

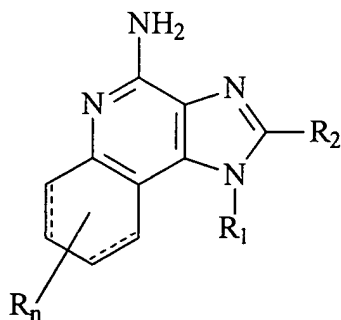
- substituted heterocyclyl;
- CO-aryl;
- CO-(substituted aryl);
- CO-heteroaryl; and
- CO-(substituted heteroaryl);

each R_3 is independently selected from the group consisting of hydrogen and C_{1-10} alkyl;

R_5 is selected from the group consisting of hydrogen and C_{1-10} alkyl, or R_4 and R_5 can combine to form a 3 to 7 membered heterocyclic or substituted heterocyclic ring;

n is 0 to 4 and each R present is independently selected from the group consisting of C_{1-10} alkyl, C_{1-10} alkoxy, halogen and trifluoromethyl, or a pharmaceutically acceptable salt thereof, to the animal.

30. A method of treating a viral disease in an animal in need thereof comprising administering to the animal an effective amount of a compound of the formula (I) that induces cytokine biosynthesis:



(I)

wherein

R_1 is -alkyl- NR_3 - SO_2 -X- R_4 or -alkenyl- NR_3 - SO_2 -X- R_4 ;

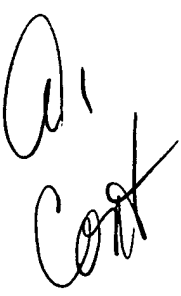
X is a bond or - NR_5 -;

R_4 is aryl, heteroaryl, heterocyclyl, alkyl or alkenyl, each of which may be unsubstituted

or substituted by one or more substituents selected from the group consisting of:

- alkyl;
- alkenyl;
- aryl;
- heteroaryl;
- heterocyclyl;
- substituted cycloalkyl;
- substituted aryl;
- substituted heteroaryl;
- substituted heterocyclyl;
- O-alkyl;
- O-(alkyl)₀₋₁-aryl;
- O-(alkyl)₀₋₁-substituted aryl;
- O-(alkyl)₀₋₁-heteroaryl;
- O-(alkyl)₀₋₁-substituted heteroaryl;
- O-(alkyl)₀₋₁-heterocyclyl;
- O-(alkyl)₀₋₁-substituted heterocyclyl;
- COOH;
- CO-O-alkyl;
- CO-alkyl;
- S(O)₀₋₂-alkyl;
- S(O)₀₋₂-(alkyl)₀₋₁-aryl;
- S(O)₀₋₂-(alkyl)₀₋₁-substituted aryl;
- S(O)₀₋₂-(alkyl)₀₋₁-heteroaryl;
- S(O)₀₋₂-(alkyl)₀₋₁-substituted heteroaryl;
- S(O)₀₋₂-(alkyl)₀₋₁-heterocyclyl;
- S(O)₀₋₂-(alkyl)₀₋₁-substituted heterocyclyl;
- (alkyl)₀₋₁-NR₃R₃;
- (alkyl)₀₋₁-NR₃-CO-O-alkyl;
- (alkyl)₀₋₁-NR₃-CO-alkyl;

- (alkyl)₀₋₁-NR₃-CO-aryl;
- (alkyl)₀₋₁-NR₃-CO-substituted aryl;
- (alkyl)₀₋₁-NR₃-CO-heteroaryl;
- (alkyl)₀₋₁-NR₃-CO-substituted heteroaryl;
- N₃;
- halogen;
- haloalkyl;
- haloalkoxy;
- CO-haloalkyl;
- CO-haloalkoxy;
- NO₂;
- CN;
- OH;
- SH; and in the case of alkyl, alkenyl, or heterocyclyl, oxo;

 **R₂** is selected from the group consisting of:

- hydrogen;
- alkyl;
- alkenyl;
- aryl;
- substituted aryl;
- heteroaryl;
- substituted heteroaryl;
- alkyl-O-alkyl;
- alkyl-O- alkenyl; and
- alkyl or alkenyl substituted by one or more substituents selected from the group

consisting of:

- OH;
- halogen;
- N(R₃)₂;

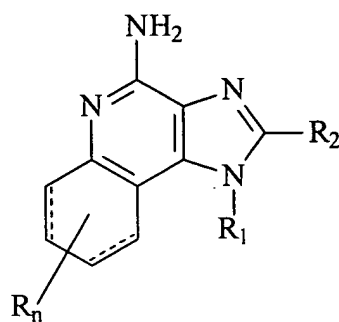
-CO-N(R₃)₂;
-CO-C₁₋₁₀ alkyl;
-CO-O-C₁₋₁₀ alkyl;
-N₃;
-aryl;
-substituted aryl;
-heteroaryl;
-substituted heteroaryl;
-heterocyclyl;
-substituted heterocyclyl;
-CO-aryl;
-CO-(substituted aryl);
-CO-heteroaryl; and
-CO-(substituted heteroaryl);

each **R**₃ is independently selected from the group consisting of hydrogen and C₁₋₁₀ alkyl;

R₅ is selected from the group consisting of hydrogen and C₁₋₁₀ alkyl, or **R**₄ and **R**₅ can combine to form a 3 to 7 membered heterocyclic or substituted heterocyclic ring;

n is 0 to 4 and each **R** present is independently selected from the group consisting of C₁₋₁₀ alkyl, C₁₋₁₀ alkoxy, halogen and trifluoromethyl, or a pharmaceutically acceptable salt thereof that induces cytokine biosynthesis.

31. A method of treating a neoplastic disease in an animal in need thereof comprising administering to the animal an effective amount of a compound of the formula (I) that induces cytokine biosynthesis:



(I)

wherein

R_1 is -alkyl-NR₃- SO₂ -X-R₄ or -alkenyl-NR₃- SO₂ -X-R₄;

X is a bond or -NR₅-;

R_4 is aryl, heteroaryl, heterocyclyl, alkyl or alkenyl, each of which may be unsubstituted or substituted by one or more substituents selected from the group consisting of:

- alkyl;
- alkenyl;
- aryl;
- heteroaryl;
- heterocyclyl;
- substituted cycloalkyl;
- substituted aryl;
- substituted heteroaryl;
- substituted heterocyclyl;
- O-alkyl;
- O-(alkyl)₀₋₁-aryl;
- O-(alkyl)₀₋₁-substituted aryl;
- O-(alkyl)₀₋₁-heteroaryl;
- O-(alkyl)₀₋₁-substituted heteroaryl;
- O-(alkyl)₀₋₁-heterocyclyl;


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- O-(alkyl)₀₋₁-substituted heterocyclyl;
- COOH;
- CO-O-alkyl;
- CO-alkyl;
- S(O)₀₋₂-alkyl;
- S(O)₀₋₂-(alkyl)₀₋₁-aryl;
- S(O)₀₋₂-(alkyl)₀₋₁-substituted aryl;
- S(O)₀₋₂-(alkyl)₀₋₁-heteroaryl;
- S(O)₀₋₂-(alkyl)₀₋₁-substituted heteroaryl;
- S(O)₀₋₂-(alkyl)₀₋₁-heterocyclyl;
- S(O)₀₋₂-(alkyl)₀₋₁-substituted heterocyclyl;
- (alkyl)₀₋₁-NR₃R₃;
- (alkyl)₀₋₁-NR₃-CO-O-alkyl;
- (alkyl)₀₋₁-NR₃-CO-alkyl;
- (alkyl)₀₋₁-NR₃-CO-aryl;
- (alkyl)₀₋₁-NR₃-CO-substituted aryl;
- (alkyl)₀₋₁-NR₃-CO-heteroaryl;
- (alkyl)₀₋₁-NR₃-CO-substituted heteroaryl;
- N₃;
- halogen;
- haloalkyl;
- haloalkoxy;
- CO-haloalkyl;
- CO-haloalkoxy;
- NO₂;
- CN;
- OH;
- SH; and in the case of alkyl, alkenyl, or heterocyclyl, oxo;

R₂ is selected from the group consisting of:

- hydrogen;
- alkyl;
- alkenyl;
- aryl;
- substituted aryl;
- heteroaryl;
- substituted heteroaryl;
- alkyl-O-alkyl;
- alkyl-O- alkenyl; and
- alkyl or alkenyl substituted by one or more substituents selected from the group

consisting of:

- 
- OH;
 - halogen;
 - N(R₃)₂;
 - CO-N(R₃)₂;
 - CO-C₁₋₁₀ alkyl;
 - CO-O-C₁₋₁₀ alkyl;
 - N₃;
 - aryl;
 - substituted aryl;
 - heteroaryl;
 - substituted heteroaryl;
 - heterocyclyl;
 - substituted heterocyclyl;
 - CO-aryl;
 - CO-(substituted aryl);
 - CO-heteroaryl; and
 - CO-(substituted heteroaryl);

each **R**₃ is independently selected from the group consisting of hydrogen and C₁₋₁₀ alkyl;

R₅ is selected from the group consisting of hydrogen and C₁₋₁₀ alkyl, or **R**₄ and **R**₅ can

combine to form a 3 to 7 membered heterocyclic or substituted heterocyclic ring;

n is 0 to 4 and each **R** present is independently selected from the group consisting of C₁₋₁₀ alkyl, C₁₋₁₀ alkoxy, halogen and trifluoromethyl,

or a pharmaceutically acceptable salt thereof that induces cytokine biosynthesis;

wherein the neoplastic disease is melanoma, hairy cell leukemia, or myelogenous leukemia.

32. A method of inducing cytokine biosynthesis in an animal according to claim 29 wherein X is a bond.

33. A method of treating a viral disease in an animal in need thereof according to claim 30 wherein X is a bond.

34. A method of treating a neoplastic disease in an animal in need thereof according to claim 31 wherein X is a bond.

35. A method of inducing cytokine biosynthesis in an animal according to claim 29 wherein X is -NR₅-.

36. A method of treating a viral disease in an animal in need thereof according to claim 30 wherein X is -NR₅-.

37. A method of treating a neoplastic disease in an animal in need thereof according to claim 31 wherein X is -NR₅-.

Please add the following new claims:

38. The method according to claim 29 wherein the animal has a viral disease.

39. The method according to claim 29 wherein the animal has a neoplastic disease.

40. The method according to claim 32 wherein the animal has a viral disease.

41. The method according to claim 32 wherein the animal has a neoplastic disease.

42. The method according to claim 35 wherein the animal has a viral disease.